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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,944	05/08/2006	Oh Young Kim	S40.2-13245-US01	5157
VIDAS, ARRETT & STEINKRAUS, P.A. SUITE 400, 6640 SHADY OAK ROAD			EXAMINER	
			MULCAHY, PETER D	
EDEN PRAIRIE, MN 55344			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			06/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/578,944	KIM ET AL.		
Office Action Summary	Examiner	Art Unit		
	Peter D. Mulcahy	1796		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>01 M</u> This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-3 and 5-13 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 and 5-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.			
9) The specification is objected to by the Examine	ar.			
10) The drawing(s) filed on is/are: a) accomposition accomposition and accomposition and accomposition and accomposition and accomposition accomposition and accomposition accomposition accomposition and accomposition acc	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6, 7 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harrell et al. US 4,839,412 in view of Hall US 6,025,422 and further in view of Mehrer US 7,297,734.
- 3. The rejection set forth under 35 USC 103 as set forth in the rejection mailed 2/3/09 over Harrell and Hall is basically repeated. Applicants newly amended claims and remarks filed in support thereof have been fully considered but have been found not persuasive.
- 4. Applicants have amended the claims so as to specify species of flame retardants and polyethylene resins. These species are found in the art as cited in the final rejection. The claim further recites the species of antioxidant as a thioester and requires a metal deactivator.
- 5. The thioester is a known conventional antioxidant. Both Harrell and Hall call for conventional antioxidants and stabilizers, Harrell at column 3 lines 40-45 and Hall at column 7 lines 6-20. The fact that these patent exemplify the Irganox 1010 does not render other conventional antioxidants patentable. To the contrary, the disclosure of the prior art is not limited to the examples but must be understood for what it fairly teaches.

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Here, conventional antioxidants and stabilizers are suggested. The Mehrer patent is cited as showing the conventionality of the metal deactivators and thioesters in polyolefinic and polyethylene compositions, see column 17 lines 45-55, column 7 line 63 to column 8 line 15 and column 19 lines 13-15. It would be prima facie obvious to incorporate the thioester and metal deactivator as shown in Mehrer in the compositions of Harrell and Hall given the appreciation of the desired properties resultant therefrom.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter D. Mulcahy whose telephone number is 571-272-1107. The examiner can normally be reached on Mon.-Fri. 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Peter D. Mulcahy/ Primary Examiner, Art Unit 1796